

Title (en)

Safety unit for an electric 3-phase circuit.

Title (de)

Sicherheitseinrichtung für eine Dreiphasenschaltung.

Title (fr)

Dispositif de sécurité pour circuit électrique triphasé.

Publication

**EP 0642200 A1 19950308 (EN)**

Application

**EP 94202495 A 19940901**

Priority

BE 9300942 A 19930908

Abstract (en)

The invention relates to a safety unit for an electric 3-phase circuit for use in, for example, an electric motor. Said safety unit comprises three semi-conducting components (1, 2, 3) each of which has a first terminal (4, 6, 8) and a second terminal (5, 7, 9). The safety unit also comprises a support (10) having three contact pins (11, 12, 13) as well as an insertive module (14). The components are secured to the support and electrically contact one of the contact pins (11, 12, 13) via the first terminals (4, 6, 8). Desired electric interconnections between the terminals are established by means of the insertive module (14) via receptive apertures in the support. Such a safety unit exhibits a great sturdiness and a high electrical safety. In addition, the use of specially constructed insertive modules enables a "star" configuration to be converted into a "delta" configuration, and conversely, in a simple manner. <IMAGE>

IPC 1-7

**H02H 9/04**; **H01R 29/00**; **H01R 31/08**; **H01R 13/66**

IPC 8 full level

**G05F 3/04** (2006.01); **H01R 29/00** (2006.01); **H01R 31/08** (2006.01); **H02H 9/04** (2006.01)

CPC (source: EP US)

**H01R 31/08** (2013.01 - EP US); **H02H 9/044** (2013.01 - EP US)

Citation (search report)

- [A] WO 9016103 A1 19901227 - SQUARE D CO [US]
- [A] US 4333119 A 19820601 - SCHOENMEYER IVAR L
- [A] GB 1497277 A 19780105 - MCMURDO INSTR CO LTD
- [A] DE 4042306 A1 19920702 - QUANTE AG [DE]

Cited by

FR2786930A1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

**DE 9414458 U1 19941103**; BE 1007484 A3 19950711; DE 69403741 D1 19970717; DE 69403741 T2 19971211; EP 0642200 A1 19950308; EP 0642200 B1 19970611; JP 3585961 B2 20041110; JP H0793044 A 19950407; US 5586908 A 19961224

DOCDB simple family (application)

**DE 9414458 U 19940908**; BE 9300942 A 19930908; DE 69403741 T 19940901; EP 94202495 A 19940901; JP 24050894 A 19940908; US 30214094 A 19940907